

CLIPPEDIMAGE= JP410091259A

PAT-NO: JP410091259A

DOCUMENT-IDENTIFIER: JP 10091259 A

TITLE: OUTPUT POWER CONTROL METHOD FOR SOLAR BATTERY

PUBN-DATE: April 10, 1998

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APPL-NO: JP08239163

APPL-DATE: September 10, 1996

INT-CL (IPC): G05F001/67;H02J003/38 ;H02M003/28 ;H02M003/335
;H02N006/00

ABSTRACT:

PROBLEM TO BE SOLVED: To supply the electric power and the voltage having the reduced variance to a DC load from a solar battery by detecting the DC load voltage and comparing this voltage with two different threshold voltage levels and controlling the distribution rate based on the result of comparison.

SOLUTION: A commercial power supply system 1 is connected to a DC load via a rectifier circuit 2 and at the same time a solar battery module 4 is connected to a load 3 via a DC power conversion device 5. Then a controller 6 inputs the output voltage $V_{SB}s$ and output current $I_{SB}s$ of the module 4 and the double end voltage $V_{SB}inv$ of the load 3 and compares them with high and low threshold voltage levels. When the voltage $V_{SB}inv$ is higher

than both threshold voltage levels, the controller 6 outputs a distribution rate command α_1 to perform the output voltage suppression control. When the voltage V_{inv} is lower than both threshold voltage levels, the controller 6 outputs the command α_1 to perform the maximum power tracking. When the voltage V_{inv} is equal to a level set between both threshold voltage levels, the controller 6 keeps the distribution rate as it is. As a result, the electric power and the voltage having the reduced variance can be supplied to the load.

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